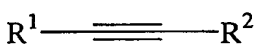
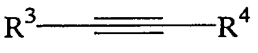
## ABSTRACT

A process for producing an organotitanium compound capable of regioselectively converting a substituted acetylene compound into polysubstituted benzene or polysubstituted pyridine. The process comprises reacting an acetylene compound represented by the formula (1)



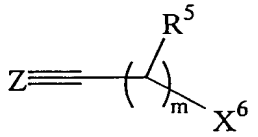
(1)

[where $R^1$ and $R^2$ denote a $C_{1-20}$ alkyl group or the like] in the presence of a prescribed titanium compound and a Grignard reagent with a compound represented by the formula (4)



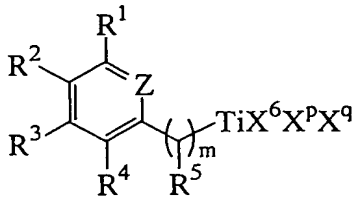
(4)

[where $R^3$ and $R^4$ denote a hydrogen atom or the like] and further reacting with a compound represented by the formula (5)

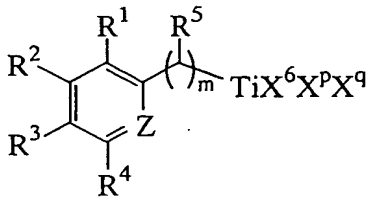


(5)

[where $R^5$ denotes a hydrogen atom or the like, Z denotes CR' (where R' denotes a hydrogen atom or the like), nitrogen atom, $X^6$ denotes a halogen atom or the like, and m is 0 or 1]
thereby giving the titanium compound represented by the formula (6) and/or (7).



(6)



(7)

[where $R^1$ ~ $R^5$, Z, $X^6$, and m are defined as above; and $X^p$ and $X^q$ denote any of $X^1$ ~ $X^4$].